

Using LaTeX to Write the Dissertation

L^AT_EX 2016 COURSE

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Outline

- 1 Cover page
- 2 Prologue
- 3 Main body
- 4 Finale
- 5 Templates

⇒ <http://def.fe.up.pt/latex/>

The Dissertation

The dissertation is often the most important single piece of work a student produces.

The University (or the School) may provide the templates and official layout guidelines, include sections for the relevant author information (university, department, supervisor, year, etc.) along with placeholder chapters for the introduction, background, method, results, conclusion/discussion, references and appendices.

The Right Format

- Let's start with FEUP-TESES:

- <https://web.fe.up.pt/~jlopes/doku.php/teach/feupteses>

- Another version in CTAN:

- <https://www.ctan.org/pkg/feupphdteses>

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The Cover Page

FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO

Title of the Dissertation

Name of the Author

DRAFT VERSION

 **PORTO**
FEUP FACULDADE DE ENGENHARIA
UNIVERSIDADE DO PORTO

Programa Doutoral em Engenharia Informática
Supervisor: Name of the Supervisor
Second Supervisor: Name of the Supervisor

May 18, 2016

Load Packages

```

\documentclass[11pt,a4paper,twoside,openright]{report}

\usepackage[utf8]{inputenc}

\usepackage[backrefs]{feupteses} % you must define the degree below

%% Additional options for feupteses.sty:
%% - onpaper: links are not shown (for paper versions)
%% - backrefs: include back references from bibliography to citation place

%% Uncomment to create an index (at the end of the document)
\makeindex

%% Path to the figures directory
%% TIP: use folder ``figures'' to keep all your figures
\graphicspath{{figures/}}

%%-----
%% TIP: if you want to define more macros, use an external file to keep them
\include{mymacros}
%%-----

%%=====
%% Start of document
%%=====
\begin{document}

```

Information about the Work

```

%%-----
%% Information about the work
%%-----
\title{Title of the Dissertation}
\author{Name of the Author}

%% Uncomment next line if necessary for degree
\degree{Programa Doutoral em Engenharia Informática}

%% Uncomment next line for date of submission
%\thisisdate{July 31, 2016}

\supervisor{Supervisor}{Name of the Supervisor}

%% Uncomment next line if necessary
\supervisor{Second Supervisor}{Name of the Supervisor}

%% Uncomment committee stuff in the final version if used
%\committeetext{Approved by \ldots:}
%\committeemember{President}{Name of the President}
%\committeemember{Referee}{Name of the Referee}
%\committeemember{Referee}{Name of the Referee}

%% Specify cover logo (in folder ``figures'')
\logo{uporto-feup.pdf}

%% Uncomment next line for additional text below the author's name (front page)
\additionalfronttext{DRAFT VERSION}

```


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The Prologue

- Abstract
- Acknowledgements
- Quotation
- Table of contents
- List of Figures
- List of Tables
- List of Abbreviations

Numbered separately in small roman numbers

Information about the Work

```
%%-----  
%% Preliminary materials  
%%-----  
  
% remove unnecessary \include{} commands  
\begin{Prolog}  
  \include{abstract} % the abstract  
  \include{acknows} % the acknowledgments  
  \include{quote} % initial quotation if desired  
  \cleardoublepage  
  \pdfbookmark[0]{Table of Contents}{contents}  
  \tableofcontents  
  \cleardoublepage  
  \pdfbookmark[0]{List of Figures}{figures}  
  \listoffigures  
  \cleardoublepage  
  \pdfbookmark[0]{List of Tables}{tables}  
  \listoftables  
  \include{abbrevs} % the list of abbreviations used  
\end{Prolog}
```

The Table of Contents

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Business as Usual

Chapter 3

Another Chapter

This chapter presents examples of figures, tables, equations and cross-references.

Maecenas eleifend facilisis leo. Vestibulum et mi. Aliquam posere, ante non tristique consectetur, dui ebit iaculisque augue, eu vehicula nibh nisi ac est. Suspendisse elementum sodales felis. Nullam laoreet fermentum urna.

3.1 Introduction

Maecenas nec purus. Suspendisse auctor mattis augue. Phasellus enim nisi, iaculis sit amet, pellentesque a, iaculis in, dui. Integer risus.

$$CF_1: F_a^{(1)}(a) = \frac{1}{2\pi i} \int_{\gamma} \frac{F_a^{(1)}(z)}{z-a} dz \quad (3.1)$$

$$CF_2: F_a^{(1)}(a) = \frac{1}{2\pi i} \int_{\gamma} \frac{F_a^{(1)}(x)}{x-a} dx \quad (3.2)$$

Equation 3.2 lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse tincidunt viverra dicit. Donec tempus vulpate maris. Donec arcu. Vestibulum condimentum porta justo. Curabitur ornare tincidunt lacus. Curabitur ac massa vel ante tincidunt placerat. Cras vehicula semper dicit. Curabitur gravida, est a elementum suscipit, est eros ullamcorper quam, sed cursus velit tempor neque. Duis tempor condimentum ante. Nam sollicitudin. Vestibulum adipiscing, orci eu tempor dapibus, nunc sapien porta metus, et cursus leo metus eget nibh.

Pellentesque rutrum, sapien at viverra facilisis, metus eros blandit sem, quis dictum erat metus eget erat. Vivamus malesuada dapibus nulla. Maecenas nec purus. Suspendisse auctor mattis augue. Phasellus enim nisi, iaculis sit amet, pellentesque a, iaculis in, dui. Integer risus.

3.2 A Section

The architecture of the visualiser follows the following base concepts: (Zakowski et al., 1997):

- **Components** — Suspendisse auctor mattis augue purus;

Contents

```
%%-----  
%% Body  
%%-----  
\StartBody  
  
%% TIP: use a separate file for each chapter  
\include{chapter1}  
\include{chapter2}  
\include{chapter3}  
\include{chapter4}  
\include{chapter5}  
  
%% comment next 2 commands if numbered appendices are not used  
\appendix  
\include{appendix1}
```

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■ The bibliography style

■ *natbib*:

<https://www.ctan.org/pkg/natbib>

■ *unsrt*:

<https://www.ctan.org/tex-archive/biblio/bibtex/base>

■ *alpha*:

<https://www.ctan.org/tex-archive/biblio/bibtex/base>

■ The Index

Final Materials

```
%%-----  
%% Final materials  
%%-----  
  
%% Bibliography  
%% Comment the next command if BibTeX file not used  
%% bibliography is in ``myrefs.bib``  
\PrintBib{myrefs}  
  
%% Index  
%% Uncomment next command if index is required  
%% don't forget to run ``makeindex thesis`` command  
\PrintIndex  
  
\end{document}
```

References

References

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- W3C World Wide Web Consortium. W3C — About SVG, abril 2005b. <http://www.w3.org/TR/SVG/intro.html/>. *Cited on page 3.*
- Debern J, Zakowski, Aparim Parakayastha, Ajay Mohindra, and Marthy Desvarakonda. Meta: A thin client application framework. *Proceedings of the Third Conference on Object-Oriented Technologies and Systems*, pages 103–114, junho 1997. *Cited on page 7.*

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Templates

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- `https://www.sharelatex.com/templates/thesis`
- `http://www.latextemplates.com/cat/theses`